

Optical fibre matrix type gene chip and its making method

Patent Number: CN1249437
 Publication date: 2000-04-05
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 Requested Patent: CN1249437
 Application Number: CN19980120104 19980929
 Priority Number(s): CN19980120104 19980929
 IPC Classification: G02B6/13
 EC Classification:
 Equivalents: CN1082189B

Abstract

An optical fibre array type gene chip used for molecular biology, biomedicine and human genome research is prepared through pre-growing gene probe on the end face of single optical fibre unit, solidifying, and arranging array with a group of optical fibre units having different gene probes. It features no cross interference between adjacent gene probes. Said gene chip allows to detect at both ends of optical fibre unit. The growth of gene probes for each kind of optical fibre unit can be performed once in large scale and they are then combined into array. Its advantages are high reliability, detecting sensitivity and preparing efficiency, and low cost.

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